

CLAIMS:

1. *rite* An iron type golf club head having a club head body and means for connection to a shaft; said club head body including a heel, toe, front surface with a ball striking face and center of percussion located thereon, a top ridge surface and bottom sole surface; wherein the improvement comprises:
a rear surface having upper and lower portions and an interface area therebetween; said upper portion being defined by a blade type iron structure between said top ridge surface and said lower portion; and a lower peripheral weight on said lower portion of said rear surface forming a rear cavity between said bottom sole surface and said upper portion.
2. *rite* The club head of claim 1 wherein at least a part of said lower peripheral weight on said lower portion is defined as having greater thickness than said upper portion.
3. *rite* The club head of claim 1 wherein at least a part of said upper portion is further defined by said blade type iron structure having a planar, flat surface.
4. *rite* The club head of claim 1 wherein at least a part of said cavity on said lower portion is further defined as having lesser thickness than said upper portion.
5. *rite* The club head of claim 1 wherein at least a part of said cavity on said lower portion is further defined as having the same thickness as said upper portion.

6. *file* The club head of claim 2 wherein said peripheral weight of said lower portion of said rear surface is progressively thicker toward said bottom sole.
7. *file* The club head of claim 1 wherein said cavity in said lower portion extends upwardly at least two-thirds of the distance toward said top ridge surface.
8. *file* The club head of claim 1 wherein said cavity in said lower portion extends upwardly to a location approximately midway between said bottom sole surface and said top ridge surface.
9. *file* The club head of claim 1 wherein a top edge of said rear cavity is coincident with said interface between said upper portion and said lower portion.
10. *in view* The club head of claim 1 wherein said rear cavity is located below said interface toward said bottom sole.
11. *file* The club head of claim 1 wherein at least a part of said rear cavity is located above said interface toward said top ridge.
- (12.) The club head of claim 1 wherein said peripheral weight includes an upper mass in a heel to toe direction above said rear cavity adjacent said interface of said upper portion and said lower portion of said club head.

Fig. 10, 428

13. The club head of claim 11 wherein said upper mass at said interface is further defined by a ledge on an upper surface thereof.

14. The club head of claim 1 further including a mass on said rear surface extending from a bottom part of said peripheral weight into said rear cavity. ^{Fig. 15}

15. The club head of claim 1 further including an insert material on said rear surface located within said cavity. ^{Fig. 16}

16. The club head of claim 15 further including undercut retention means on rear cavity walls for retention of said insert material. ^{Fig. 15 (832)}

17. The club head of claim 1 further including a weight on said rear surface located within said cavity. ^{Fig. 15}

18. The club head of claim 1 wherein said cavity is located on said lower portion of said rear surface toward said heel.

19. The club head of claim 1 wherein said cavity is located on said lower portion of said rear surface toward said toe.

20. An iron type golf club head having a club head body and means for connection to a shaft; said club head body including a heel, toe, front surface with a ball striking

face and center of percussion located thereon, a top ridge surface and bottom sole surface; wherein the improvement comprises:

a rear surface having upper and lower portions and an interface area therebetween; said upper portion being defined by a blade type iron structure between said top ridge surface and said lower portion; and a lower peripheral weight on said lower portion of said rear surface forming a rear cavity between said bottom sole surface and said upper portion; said rear cavity being formed by a lower surface, a bottom side wall, toe side wall, a heel side wall and an upper side wall.

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21. The club head of claim 20 wherein said rear cavity is located below said interface between said upper portion and said lower portion.
 22. The club head of claim 20 wherein said rear cavity is coincident with said interface between said upper portion and said lower portion.
 23. The club head of claim 20 wherein said upper side wall of said rear cavity is recessed inwardly from said rear surface.
 24. The club head of claim 20 wherein at least one of the side walls of said rear cavity is located outwardly from said rear surface.

25. An iron type golf club head having a club head body and means for connection to a shaft; said club head body including a heel, toe, front surface with a ball striking face and center of percussion located thereon, a top ridge surface and bottom sole surface; wherein the improvement comprises:
a rear surface having upper and lower portions; said upper portion being defined by a blade type iron structure between said top ridge surface and said lower portion; said lower portion defined by a lower peripheral weight formed thereon and a rear cavity; a lower part of said cavity being located within said peripheral weight and an upper part of said cavity being located within said upper portion.
26. The club head of claim 25 wherein said rear cavity is further defined as being recessed into said rear surface.
27. An iron type golf club head having a club head body and a means for connection to a shaft; said club head body including a heel, toe, front surface with a ball striking face and center of percussion located thereon, a top ridge surface and bottom sole surface; wherein the improvement comprises:
a rear surface having upper and lower portions; said upper portion being defined by a blade type iron structure between said top ridge surface and said lower portion; said lower portion defined by a lower peripheral weight formed thereon and a rear cavity; an upper part of said peripheral weight extending above said rear cavity onto said upper portion.

28. The club head of claim 27 wherein said rear cavity is further defined as being recessed into said rear surface.
29. The club head of claim 1 wherein said cavity is recessed into said rear surface.
30. The club head of claim 1 wherein said peripheral weight extends outwardly from said rear surface.
31. The club head of claim 1 wherein said peripheral weight terminates in upper edges coincident with said interface.
32. The club head of claim 31 wherein said upper edges form a ledge structure.

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